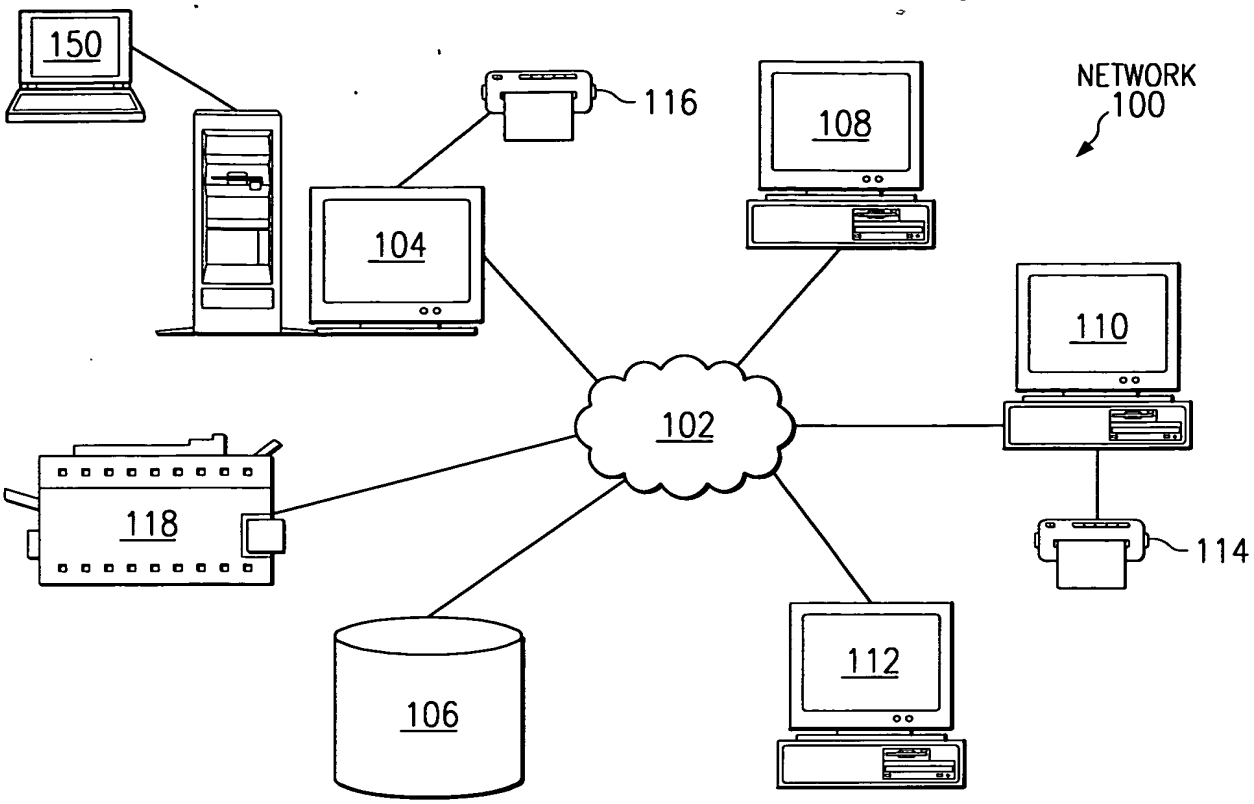


FIG. 1

FIG. 6

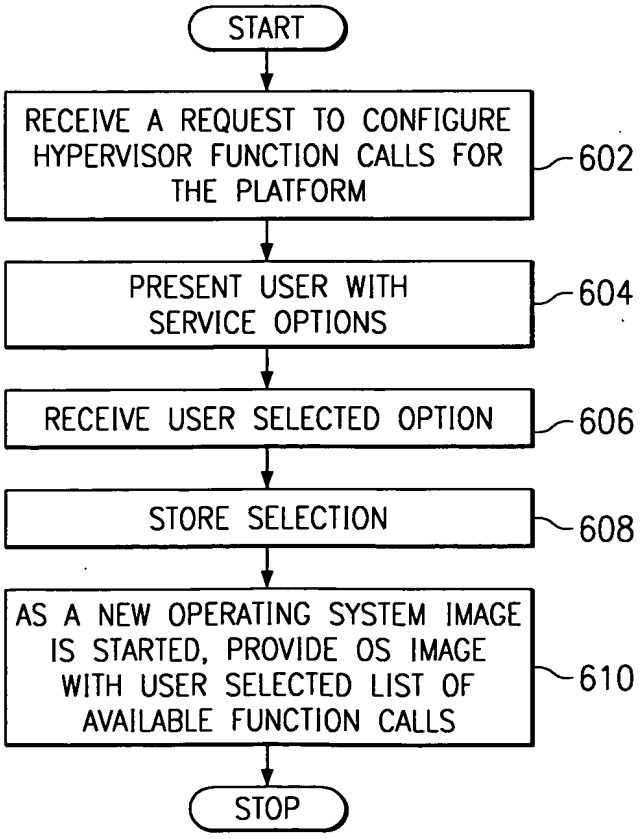
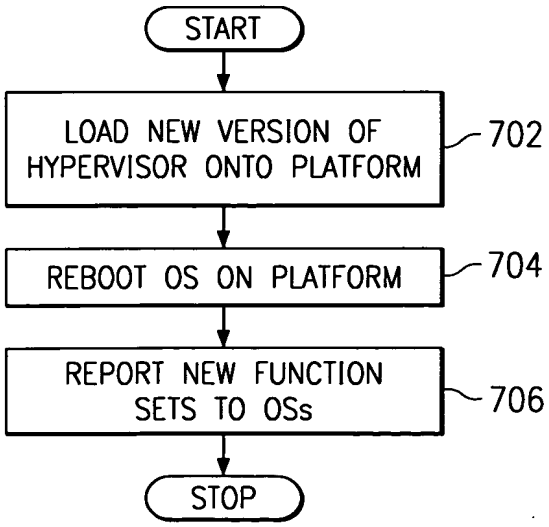


FIG. 7



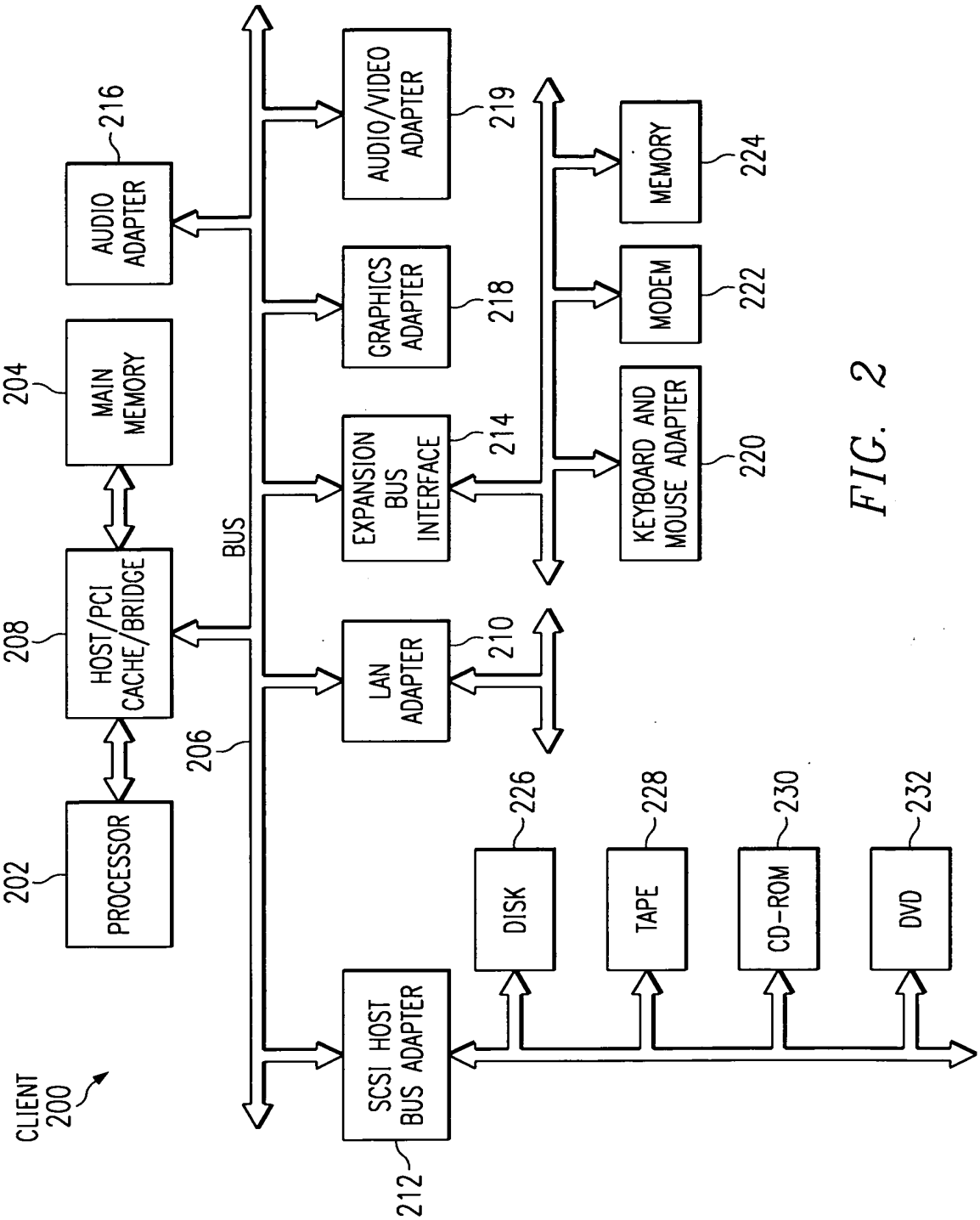

CLIENT
200
PROCESSOR
202
HOST/PCI
CACHE/BRIDGE
208
MAIN
MEMORY
204
AUDIO
ADAPTER
216
BUS
206
SCSI HOST
BUS ADAPTER
212
LAN
ADAPTER
210
EXPANSION
BUS
INTERFACE
214
GRAPHICS
ADAPTER
218
AUDIO/VIDEO
ADAPTER
219
KEYBOARD AND
MOUSE ADAPTER
220
MODEM
222
MEMORY
224
DISK
226
TAPE
228
CD-ROM
230
DVD
232

FIG. 2

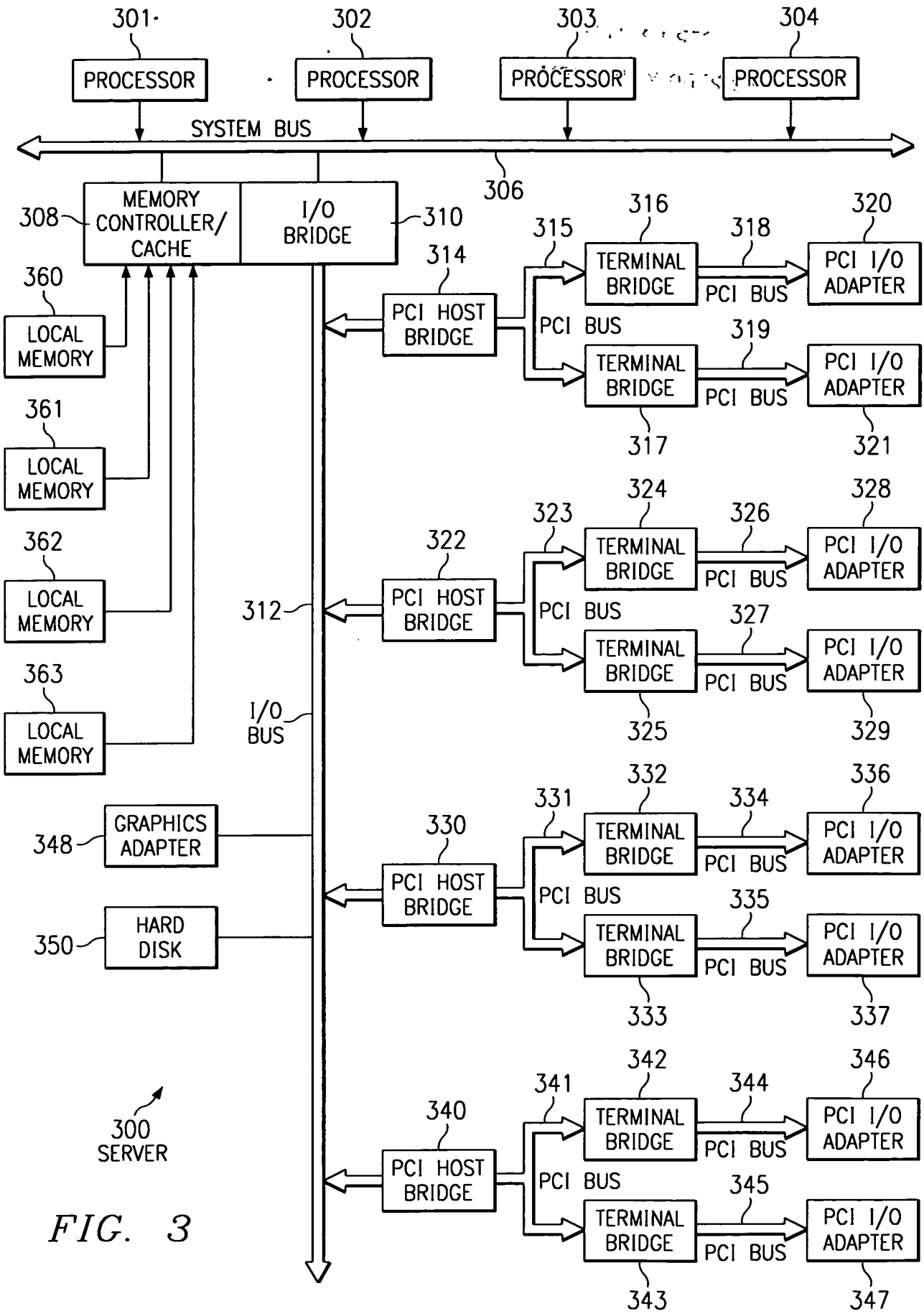

301
302
303
304
PROCESSOR
PROCESSOR
PROCESSOR
PROCESSOR
SYSTEM BUS
306
308
MEMORY CONTROLLER/ CACHE
I/O BRIDGE
310
360
LOCAL MEMORY
361
LOCAL MEMORY
362
LOCAL MEMORY
363
LOCAL MEMORY
312
I/O BUS
314
PCI HOST BRIDGE
315
316
TERMINAL BRIDGE
318
PCI I/O ADAPTER
320
PCI BUS
PCI BUS
319
TERMINAL BRIDGE
PCI I/O ADAPTER
PCI BUS
317
321
322
PCI HOST BRIDGE
323
324
TERMINAL BRIDGE
326
PCI I/O ADAPTER
328
PCI BUS
PCI BUS
327
TERMINAL BRIDGE
PCI I/O ADAPTER
PCI BUS
325
329
330
PCI HOST BRIDGE
331
332
TERMINAL BRIDGE
334
PCI I/O ADAPTER
336
PCI BUS
PCI BUS
335
TERMINAL BRIDGE
PCI I/O ADAPTER
PCI BUS
333
337
340
PCI HOST BRIDGE
341
342
TERMINAL BRIDGE
344
PCI I/O ADAPTER
346
PCI BUS
PCI BUS
345
TERMINAL BRIDGE
PCI I/O ADAPTER
PCI BUS
343
347
348
GRAPHICS ADAPTER
350
HARD DISK
300
SERVER

FIG. 3

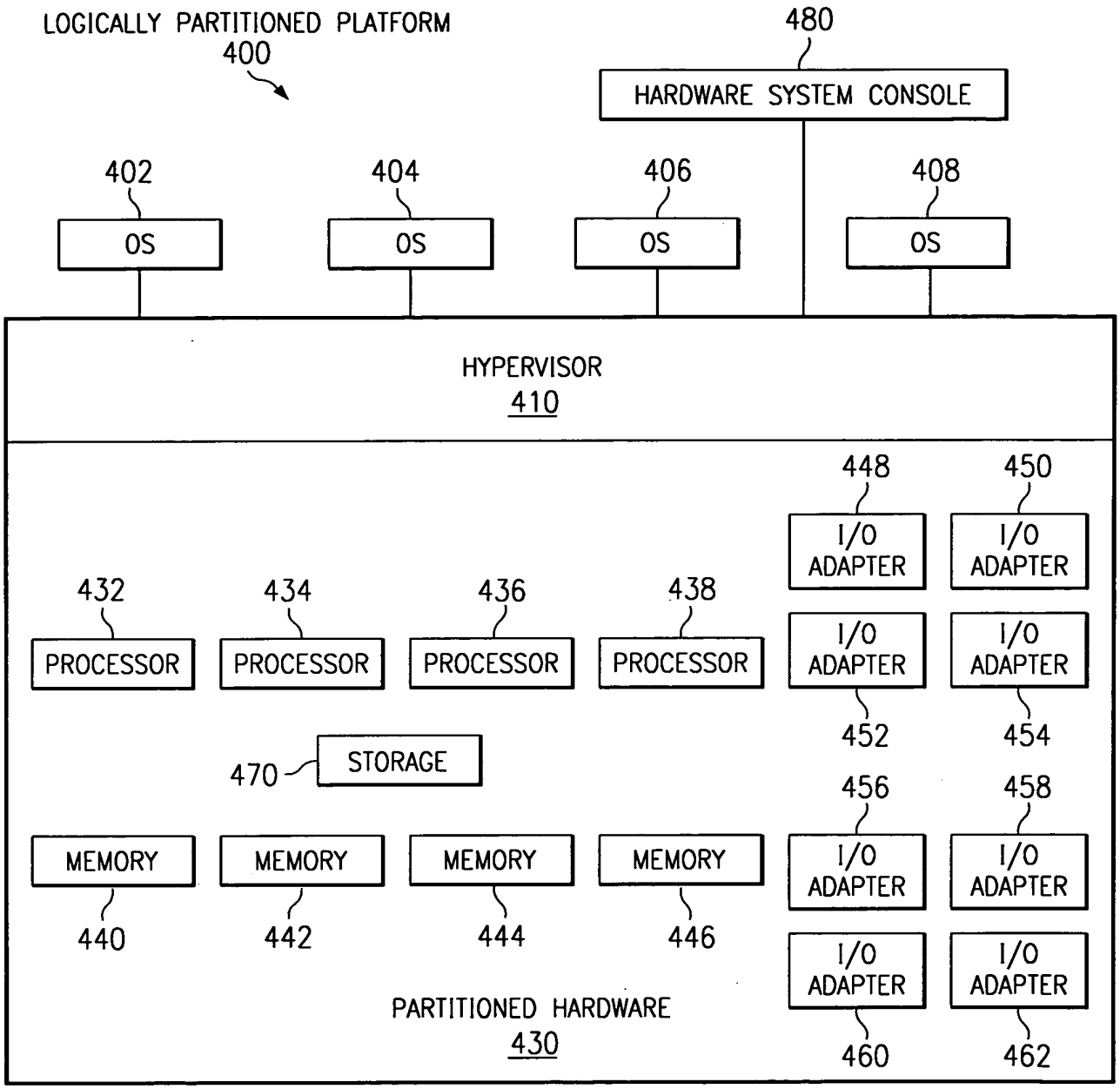

LOGICALLY PARTITIONED PLATFORM
400
480
HARDWARE SYSTEM CONSOLE
402
404
406
408
OS
OS
OS
OS
HYPERVISOR
410
448
450
I/O ADAPTER
I/O ADAPTER
432
434
436
438
PROCESSOR
PROCESSOR
PROCESSOR
PROCESSOR
I/O ADAPTER
I/O ADAPTER
452
454
470
STORAGE
456
458
MEMORY
MEMORY
MEMORY
MEMORY
I/O ADAPTER
I/O ADAPTER
440
442
444
446
I/O ADAPTER
I/O ADAPTER
PARTITIONED HARDWARE
430
460
462

FIG. 4

HYPERVISOR FUNCTION SET TABLE

500

520 FUNCTION SET NAME:	530 FUNCTIONS:
501 hcall-pft	H_REMOVE,H_ENTER,H_READ, H_CLEAR_MOD,H_CLEAR_REF, H_PROTECT
502 hcall-tce	H_GET_TCE,H_PUT_TCE
503 hcall-sprg0	H_SET_SPRG0
504 hcall-dabr	H_SET_DABR
505 hcall-copy	H_PAGE_INIT
506 hcall-asr	H_SET_ASR,H_ASR_ON,H_ASR_OFF
507 hcall-debug	H_LOGICAL_CI_LOAD, H_LOGICAL_CI_STORE, H_LOGICAL_CACHE_LOAD, H_LOGICAL_CACHE_STORE, H_LOGICAL_ICBI,H_LOGICAL_DCBF
508 hcall-term	H_GET_TERM_CHAR, H_PUT_TERM_CHAR
509 hcall-perf	H_REAL_TO_LOGICAL
510 hcall-dump	H_HYPERVISOR_DATA

FIG. 5